

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

FORM PTO-1443
(REV. 7-80)INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

ATTY. DOCKET NO.
SPC92-02A2SERIAL NO.
08/382,744APPLICANT
John MorleyFILING DATE
February 2, 1995GROUP
120.6

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
AA		3,341,593	9-12-67	Zeile <i>et al.</i>			
AB		3,994,974	11-30-76	Murakami <i>et al.</i>	260	562A	
AC		4,119,710	10-10-78	Englehardt <i>et al.</i>	424	282	
AD		3,885,047	5-20-75	Seidehamel <i>et al.</i>	424	330	
AE		3,985,897	10-12-76	Seidehamel <i>et al.</i>	424	321	
AF							
AG							
AH							
AI							
AJ							
AK							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES NO
AL		2128258	11-AUG-83	Germany			
AM		4014252	7-NOV-91	Germany			
AN		2662691	6-DEC-91	France (Derwent Abstract only)			
AO		2187734	16-SEP-87	UK			
AP		455155	26-APR-91	EPO			
AQ		93/00090	7-JAN-93	WO			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Murase, K. <i>et al.</i> , "Absolute Configurations of Four Isomers of 3-Formamido-4-hydroxy- α -[N-p-methoxy- α -methylpenethyl]amino]methyl]benzyl Alcohol, a Potent β -Adrenoreceptor Stimulant," <i>Chem. Pharm. Bull.</i> , 26(4):1123-1129 (1978).
AS	Schill, G. <i>et al.</i> , "Chiral Separations of Cationic and Anionic Drugs on an α_1 -Acid Glycoprotein-Bonded Stationary Phase (ENANTIOPAC $^{\circ}$)," <i>Journal of Chromotography</i> , 365:73-88 (1986).
AT	Hartley D. and Middlemiss D., "Absolute Configuration of the Optical Isomers of Salbutamol," <i>Journal of Medicinal Chemistry</i> , 14(9):895-896 (1971).

EXAMINER

DATE CONSIDERED

FORM PTO-1449 (REV. 7-80)	ATTY. DOCKET NO. SPC92-02A2	SERIAL NO. 08/382,744
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		
<i>(Use several sheets if necessary)</i>		
	APPLICANT John Morley	
	FILING DATE February 2, 1995	GROUP 1206

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AU	Okamoto, Y. et al., "Optical Resolution of Racemic Drugs by Chiral HPLC on Cellulose and Amylose Tris(Phenylcarbamate) Derivatives," <i>Journal of Liquid Chromotography</i> , 11:2147-2163 (1998).
AV	Trofast, J. et al., "Steric Aspects of Agonism and Antagonism at β -Adrenoceptors: Synthesis of and Pharmacological Experiments With the Enantiomers of Formoterol and Their Diastereomers," <i>Chirality</i> , 3:443-450 (1991).
AW	Waldeck, B. and Widmark, E., "Steric Aspects of Agonism and Antagonism at β -Adrenoceptors: Experiments with the Enantiomers of Clenbuterol," <i>Acta Pharmacol. et Toxicol.</i> , 56:221-227 (1985).

EXAMINER

DATE CONSIDERED

FORM PTO-1449
(REV. 7-80)INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

ATTY. DOCKET NO.
SPC92-02A2SERIAL NO.
08/382,744APPLICANT
John MorleyFILING DATE
February 2, 1995GROUP
1206

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AX	Borgström, L. et al., "Pharmacokinetic Evaluation in Man of Terbutaline Given as Separate Enantiomers and As the Racemate," <i>Br. J. Clin Pharmac.</i> , 27:49-56 (1989).
AY	Koster, A. et al., "Stereoselective Formation of Fenoterol-Para-Glucuronide and Fenoterol- Meta-Glucuronide in Rat Hepatocytes and Enterocytes," <i>Biochemical Pharmacology</i> , 35(12):1981-1985 (1986).
AZ	Tan, Y.K. and Soldin, S.J., "Analysis of Salbutamol Enantiomers in Human Urine by Chiral High-Performance Liquid Chromatography and Preliminary Studies Related to the Stereoselective Disposition Kinetics in Man," <i>J. Chromat.</i> , 422:187-195 (1987).
AR2	Kaiser, G. et al., "Identification and Quantification of β -Adrenoceptor Sites in Red Blood cells from Rats," <i>Naunyn-Schmiedeberg's Arch. Pharmacol.</i> , 305:41-50 (1978).
AS2	Hawkins, C.J. and Klease, G.T., "Relative Potency of (-) and (\pm) - Salbutamol on Guinea Pig Tracheal Tissue," <i>Journal Medicinal Chemistry</i> , 16(7):856-857 (1973).
AT2	Brittain, R.T. et al., "Some Observations on the β -Adrenoceptor Agonist Properties of the Isomers of Salbutamol," <i>Br. J. Pharmac.</i> , 48:144-147 (1973).
AU2	Buckner, C.K. and Abel, P., "Studies on the Effects of Enantiomers of Soterenol, Trimetoquinol and Salbutamol on BETA Adrenergic Receptors of Isolated Guinea-Pig Atria and Trachea," <i>J. Pharmacol Exp. Therap.</i> , 189(3):616-625 (1974).
AV2	Jepsson, A.-B. and Waldeck, B., "Interaction Between Bambuterol and Physostigmine: Aspects on Cholinesterase Inhibition and Neuromuscular Transmission in the Smooth and Skeletal Muscles of the Guinea-Pig," <i>Pharmac. and Tox.</i> , 63:211-214 (1988).

EXAMINER

DATE CONSIDERED

FORM PTO-1449. (REV. 7-80) INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		ATTY. DOCKET NO. SPC92-02A2	SERIAL NO. 08/382,744
		APPLICANT John Morley	
		FILING DATE February 2, 1995	GROUP 1206

U. S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AW2	Computer Print-Out for Publications Relating to "TA 2005".
AX2	Index Nominum for Fenoterol and Formoterol.
AY2	USAN Cumulative List of References for Fenoterol and Formoterol (1961-1991).
AZ2	Package Insert for the Product Fenoterol as sold in Japan.
AR3	Merck Index 11th Edition, Item 9502-for Tretoquinol.
AS3	Fogleman, F. and Grundy, H.F., "A Comparison of the Cardiovascular Actions of AQ 110 With Those of Isoprenaline and Salbutamol," Br. J. Pharmac., 38:416-432 (1970).
AT3	Ahn, C-H. et al., "Characterization of the Inhibition of U46619-Mediated Human Platelet Activation by the Trimetoquinol Isomers," Biochemical Pharmacology, 37(15):3023-3033 (1988).
AU3	Computer Printout of Scrip No. 1678, pg. 31 (December 18, 1991).
AV3	Scrip No. 1686, pg. 12 (January 24, 1992).
AW3	Patterson, J. W. et al., "State of the Art Bronchodilator Drugs," American Review of Respiratory Disease, 120:1149-1187 (1979).

EXAMINER	DATE CONSIDERED

FORM PTO-1449
(REV. 9-80)INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

ATTY. DOCKET NO.
SPC92-02A2SERIAL NO.
08/382,744APPLICANT
John MorleyFILING DATE
February 2, 1995GROUP
1206

U.S. PATENT DOCUMENTS

EXAM- INER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AX3	Kraan, J. et al., "Changes in Bronchial Hyperreactivity Induced by 4 Weeks of Treatment With Antiasthmatic Drugs in Patients With Allergic Asthma: A Comparison Between Budesonide and Terbutaline," <i>J. Allergy Clin. Immunol.</i> , 76(4):628-636 (1985).
AY3	Vathenens, A.S. et al., "Rebound Increase in Bronchial Responsiveness After Treatment With Inhaled Terbutaline," <i>The Lancet</i> , pgs. 554-557 (1988).
AZ3	Larsson, S., "Long-term Studies on Long-Acting Sympathomimetics," <i>Lung</i> , pgs. 22-24 (1990).
AR4	van Schayck, C.P. et al., "Increased Bronchial Hyperresponsiveness After Inhalng Salbutamol During 1 Year Is Not Caused by Subsensitization to Salbutamol," <i>J. Allergy and Clinical Immunology</i> , 86(5):793-800 (1990).
AS4	β_2 Agonists in Asma: Relief, Prevention, Morbidity," <i>Editorials, The Lancet</i> , 336:1411-1412 (1990).
AT4	Sears, M. R. et al., "Regular Inhaled Beta-agonist Treatment in Bronchial Asthma," <i>The Lancet</i> , 336:1391-1396 (1990).
AU4	Wong, C. S. et al., "Bronchodilator, Cardiovascular, and Hypokalaemic Effects of Fenoterol, Salbutamol, and Terbutaline in Asthma," <i>The Lancet</i> , 336:1396-1399 (1990).
AV4	Burrows, B. and Lebowitz, M.D., "The β -Agonist Dilemma," <i>The New England Journal of Medicine</i> , 326(8):560-561 (1992).
AW4	Spitzer, W. O. et al., "The Use of β -Agonists and the Risk of Death and Near Death From Asthma," <i>The New England Journal of Medicine</i> , 326(8):501-506 (1992).
AX4	Scrip No. 1639, Pg. 24 (August 2, 1991).

EXAMINER

DATE CONSIDERED

FORM PTO-1449
(REV. 7-80)
INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

ATTY. DOCKET NO.
SPC92-02A2SERIAL NO.
08/382,744APPLICANT
John MorleyFILING DATE
February 2, 1995GROUP
1206

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AY4	Scrip No. 1657, pg. 20-21 (October 4, 1991).
	AZ4	Scrip No. 1678, pg. 30 (December 18, 1991).
	AR5	Chapman, I. et al., "An Anomalous Effect of Salbutamol in Sensitised Guinea-Pigs," Abstract 66 P, British Journal of Pharmacology, 99, Abstract No. 66P (1990).
	AS5	Barnes, P.J. and Chung, K.F., "Questions About Inhaled β_2 -Adrenoceptor Agonists in Asthma," TIPS, 13:20-23 (1992).
	AT5	Conolly, M.E. et al., "Resistance to β -adrenoceptor Stimulants (a possible explanation for the rise in asthma deaths)," Br. J. Pharmac., 43:389-402 (1971).
	AUS	Conolly, M. E., "Beta-Adrenergic Tachyphylaxis (Desensitization) and Functional Antagonism," pgs. 259-296.
	AV5	Morley, J. and Sanjar S., "Isoprenaline Induces Increased Airway Reactivity in the Guinea-Pig," J. Physiol., 390:180P (1987).
	AW5	Sanjar, S. et al., "Increased Airway Reactivity in the Guinea-Pig Follows Exposure to Intravenous Isoprenaline," Journal of Physiology, 425:43-54 (1990).
	AX5	Sanjar, S. and Morley J., "Airway Hyperreactivity," The Lancet, 160-161 (July 16, 1988).
	AY5	Fedyna, J.S. et al., "Pharmacological Evaluation of the β -Adrenoceptor Agonist and Thromboxane Antagonist Properties of N-Substituted Trimetoquinal Analogue," Euro. J. Pharm., 135:161-171 (1987).

EXAMINER

DATE CONSIDERED

FORM PTO-1449
(REV. 7-80)
INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(Use several sheets if necessary)

ATTY. DOCKET NO.
SPC92-02A2SERIAL NO.
08/382,744APPLICANT
John MorleyFILING DATE
February 2, 1995GROUP
1206

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAMES	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AZ5	Saihan, E. M., "Ketotifen and Terbutaline in Urticaria," <i>British Journal of Dermatology</i> , 104:205-206 (1981).
AR6	Koshino, T., "Ketotifen Prevents Terbutaline-Induced Down-Regulation of Beta-Adrenoceptors in Guinea Pig Lung," <i>Biochemical and Biophysical Research Communications</i> , 152(3):1221-1227 (1988).
AS6	Mazzoni, L. et al., "An Anomalous Interaction Between Propranolol and Isoprenaline," <i>Br. J. Pharm.</i> , 91:526 (1987).

EXAMINER

DATE CONSIDERED

FORM PTO-1449 (REV. 7-80)	ATTY. DOCKET NO. SPC92-02A2	FILE NO. 08/382,744
INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary).</i>	APPLICANT John Morley	
	FILING DATE February 2, 1995	GROUP 1206

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AT6	<p>Morley, J., et al., "Viewpoint: Untoward Effects of Beta-adrenoceptor Agonists in Asthma," <i>European Respiratory Journal</i>, 3:228-233 (1990).</p>

EXAMINER

DATE CONSIDERED